

Thursday, 20 August 1987

15:15

Poster Session, Saal 8 (Room 8)

Sources of Volatile Organic Compounds and their Emissions

Co-Chairpersons:

H. Ozkaynak, Dr., Cambridge (USA)
M. Sonneborn, Dr., Berlin (D)

Presentations (5 min. each):

- Gustafsson H.N.O.
Proposal of an „Euro Chamber“ for Testing Formaldehyde and Other Indoor Air Pollutants
- Levin H.
A Procedure Used to Evaluate Building Materials and Furnishings for a Large Office Building
- Ohrbach K.-H., Matuschek G., Kettrup A.
Pyrolysis of Polymeric Materials for Construction, Room Decoration and Insulation
- Reist P.C., Reaves J.C., White J.B.
Developmental Status of the Indoor Air Source Emissions Database
- Rothweiler H., Knutti R., Schlatter C.
Formaldehyde in Indoor Air
- Sheldon L.S., Michael L.C., Pellizzari E.D., Wallace L.
Use of a Portable Gas Chromatograph for Identifying Sources of Volatile Organics in Indoor Air
- van der Wal J.F., Moons A.M.M., Steenlage K.
Thermal Insulation as a Source of Air Pollution
- White J.B., Leaderer B.P., Boone P.M., Hammond S.K.
Characterization of Particle and Organic Emissions from Unvented Kerosene Space Heaters
- Wolkoff P., Nielsen G.D.
Carbonless Copy Paper as a Potential Non-Building Indoor Irritant

16:30

Break

17:00

Discussion at Poster Walls (Area A 2)



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11:00

Break

11:30

Discussion at Poster Walls (Area D 1)

9:45

Poster Session, Saal 10 (Room 10)

Combustion Gases: Analysis and Concentration Levels

Co-Chairpersons:

E. Lahmann, Professor, Berlin (D)
D. Moschandreas, Dr., Chicago (USA)

Presentations (5 min. each):

- Atkins D.H.F., Law D.V.
Indoor-Outdoor Nitrogen Dioxide Concentration Ratios for Homes with Gas and Electric Cooking
- Baker P.E., Cunningham S.J., Becker E.W., Colome S.D., Wilson A.L.
Evaluation of Housing and Appliance Characteristics Associated with Elevated Indoor Levels of Nitrogen Dioxide
- Baker P.E., Cunningham S.J., Becker E.W., Colome S.D., Wilson A.L.
An Overview of the Residential Indoor Air Quality Characterization Study of Nitrogen Dioxide
- Colome S.D., Lambert W.E., Castaneda N.
Performance Characteristics of Palmes Diffusion Tubes Used for Measurement of Nitrogen Dioxide Outside Residential Sites
- Colome S.D., Wilson A.L., Becker E.W., Cunningham S.J., Baker P.E.
Analysis of Factors Associated with Indoor Residential Nitrogen Dioxide: Multivariate Regression Results
- Colome S.D., Wilson A.L., Becker E.W., Cunningham S.J., Baker P.E.
Temporal Evaluation of Nitrogen Dioxide in Thirty Seven Residences
- Goldstein I.F., Andrews H., Bodian C., Kelley G.
Variability in Nitrogen Dioxide Readings Within and Between New York Inner-City Apartments
- Hemphill C.P., Ryan P.B., Billick I.H., Nagda N.L., Koontz M.D., Fortmann R.C.
Estimation of Nitrogen Dioxide Concentrations in Homes Equipped with Unvented Gas Space Heaters

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- Kaarakka P., Kanarek M.S., Lawrence J.R.
Assessment and Control of Indoor Air Pollution
Resulting from Wood-Burning Appliance Use
- Koontz M.D., Nagda N.L.
Survey of Factors Affecting NO₂ Concentrations
- Lebrete E., Noy D., Boleij J., Brunekreef B.
Real-time Concentration Measurements of CO
and NO₂ in Twelve Homes
- Pannwitz K.-H.
Monitoring of Inorganic Air Contaminants in
Indoor Environments by Direct Reading
Diffusion Tubes
- Stetter J.R., Chang S.-C.
Portable Monitor for the Measurement of Indoor
NO₂ Concentrations
- Thurston G.D.
A Field Study of Nitrogen Oxide Levels Inside
and Outside an International Airport Terminal
- Wilson A.L., Colome S.D., Baker P.E.,
Cunningham S.J., Becker E.W., Bope W.G.
Comparison of Passive and Chemiluminescence
Monitors for Determining One-Week Average
Nitrogen Dioxide Concentrations

11:15 Break

11:45 Discussion at Poster Walls (Area C2)

Plenary Lectures, Saal 3 (Hall 3)

14:00 Air-conditioning: New Horizons -
New Opportunities
H. Esdorn, Professor, Berlin (D)

14:30 A Solution to the Sick Building Mystery
P.O. Fanger, Professor, Lyngby (DK)



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Poster Session, Saal 6 (Room 6)

Ventilation Effectiveness

Co-Chairpersons:

E. Mayer, Dr., Holzkirchen (D)
M. Sandberg, Dr., Gävle (S)

Presentations (5 min. each):

- Bächlin W.
Pressure Inside Buildings - A Dominant Para-
meter for Calculating Effective Natural Ventilation
- Fail A., Panzhauser E.
Natural Shaft Ventilation - Measurement,
Simulation, Contribution to Basic Ventilation
- Fitzner K.
Air Outlets for Displacement Flow and Their
Influence on the Flow Pattern With Various
Kinds of Heat Sources
- Hain K., Trümper H.
The Relations of Air Humidity in Dwellings at
Different Ventilation Systems (Natural &
Mechanical)
- Hanssen S.O., Mathisen H.M.
Sick Buildings - A Ventilation Problem?
- Kubo T., Fujii S., Hayakawa I.
On the Performance of Turbulent Airflow Clean
Rooms Based on Airborne Particle Counts in a
Model Room
- Narasaki M., Yamanaka T., Higuchi M.
Influence of Turbulent Wind on Ventilation
- Niemelä R., Aalto H., Tossavainen A.
Evaluation of Low-Cost Tracer Techniques for
Measuring Air Exchange Rates in Buildings
- Norell L.
Conversion of a Natural Draught Ventilation
System to Mechanical Exhaust with Heat Pump
- A Case Study
- Olsson H.
Increased Ventilation Efficiency in Rooms
- Vercammen M., Leuderer B.P., Dietz R.N.
Influence of Airflow on the Performance of the
Perfluorocarbon Tracer Technique for Measuring
Ventilation Rates

16:15

Break

16:45

Discussion at Poster Walls (Area G2)

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15:15 -Symposium, Saal 7 (Room 7)

**Microbiological Indoor Pollutants:
Sources, Characterization and Health Effects**

Organizer: H. Ruden, Professor/
H.-J. Monske, Dr., Berlin (D)
Chair: P. Morey, Dr., Golden Valley (USA)

Presentations (15 min. each):

- Tyndall R.L., Dudney C.S., Hawthorne A.R., Jernigan R., Ironside K., Metter P.
Microflora of the Typical Home
- Morey P., Burge H., Chatigny M., Feeley J., Kreiss K., Otten J., Peterson K.
Assessment of Non-Pathogenic Bioaerosols in Indoor Environments
- Yoshizawa S., Irie T., Sugawara F., Ozawa S., Kohsaka Y., Matsumae A.
Microbiological Contamination From Air Conditioning Systems in Japanese Buildings
- Reponen T., Nevalainen A., Raunemaa T.
Airborne Fungal Spore and Bacteria Levels in Finnish Homes with Different Ventilation Systems
- Holmberg K.
Indoor Mould Exposure and Health Effects
- Jantunen M.J., Nevalainen A., Rytönen A.-L., Pellikka M., Kalliokoski P.
The Effect of Humidification on Indoor Air Fungal Spores Counts in Apartment Building
- Finnegan M.J., Pickering A.C., Davies P.S., Austwick P.K.C., Warhurst D.C.
Amoebae: The Cause of Humidifier Fever?

17:00 Break

17:30 Discussion



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15:15 Symposium, Saal 3 (Hall 3)

Combustion Gases: Characterization and Health Effects

Organizer: J. Boleij, Professor, Wageningen (NL)
Chair: K. Maeda, Professor, Tokyo (J)

Presentations (15 min. each):

- Traynor G.W., Aceti J.C., Apte M.G., Smith B.V., Green L.L., Smith-Reiser A., Novak K.M., Moses D.O.
Macromodel for Assessing Indoor Exposures to Combustion-Generated Pollutants
- Harlos D.P., Spengler J.D., Billick I.
Continuous Nitrogen Dioxide Monitoring During Cooking and Commuting: Personal and Stationary Exposures
- Colome S.D., Lambert W.E., Castaneda N.
Determinants of Carbon Monoxide Exposure in Residences of Ischemic Heart Disease Patients
- Lebre E.
Errors in Exposure Variables and Their Role in Obscuring Exposure-Response Relations: The Case of Indoor Exposure to Nitrogen Dioxide and Fine Particles
- Goldstein I.F., Andrews L.R., Lieber K., Fouttrakis G., Kazembe R., Huang P., Hayes C.
Acute Exposure to Nitrogen Dioxide and Pulmonary Function
- Berwick M., Leaderer B.P., Stolwijk J.A.J., Zagarinski R.T.
Association between Nitrogen Dioxide Levels and Lower Respiratory Symptoms in Children Exposed to Unvented Combustion Sources
- Brunekreef B., Fischer P., Houthuijs D., Remijn B., Boleij J.
Health Effects of Indoor NO₂ Pollution

17:00 Break

17:15 Discussion

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15:15 Symposium, Saal 4/5 (Room 4/5)

Measures to Guarantee Adequate Indoor Air Quality

Organizer: P.O. Fanger, Professor, Lyngby (DK)
Chair: O. Seppänen, Professor, Helsinki (SF)

Presentations (15 min. each):

- Komine H., Yoshizawa S., Tochihara Y., Kimura E., Ohnaka T.
The Investigations on IAQ and Subjective Evaluations of Occupants for Indoor Environments in Japanese Office Buildings
- Savolainen T., Raunemaa T., Wellman K.
Automatic Measurement and Data Collection System on Indoor Air Study at Three Small Housing Flats
- Jokl M.V., Rohles F.H.
Improving Occupant Well-Being with Ionized Air
- Lundqvist G.R., Aalvikke C.
Airborne and Settling Particulates in a Day-Care Institution: Field and Exposure Chamber Studies
- Weschler C.J., Shields H.C.
A Detailed Study of the Effects of Ventilation, Filtration and Outdoor Air on the Composition of Indoor Air at a Telephone Office Building
- Ancker K., Göthe C.-J., Bjurström R.
A Quantitative Method for Measuring Air Recirculation
- Seppänen O.A.
Ventilation and Indoor Air Quality
- Trepte L., Le Marie A.
Minimum Ventilation Rates and Ventilation Strategies

17:15 Break

17:30 Discussion



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17:00 Break

17:30 Discussion

15:15 Symposium, Saal 4/5 (Room 4/5)

Controls: Source Modification and Air Cleaning

Organizer: D. Grimsrud, Dr., Berkeley (USA)
Chair: J. Sundell, M.Sc., Solna (S)

Presentations (15 min. each):

- Godish T., Rouch J.
Control of Residential Formaldehyde Levels by Source Treatment
- Nazaroff W.W., Cass G.R.
Mass-Transfer Aspects of Pollutant Removal at Indoor Surfaces
- Klein C.F., Relwani S.M., Moschandreas D.J.
Evaluation of a Proprietary Detector as an Indoor Air Quality Sensor
- Relwani S.M., Moschandreas D.J., Billick I.H.
Indoor Air Quality Control Capabilities of Desiccant Materials
- Kettrup A., Klusmeier W., Ohrbach K.-H.
A New Filter System for Indoor Pollutant Separation (Particles, Organic and Inorganic Gases)
- Kimmel J.
Performance of Electrostatic Precipitators in Restaurants
- Sandberg M., Mellin A.
Artificial Electrostatic Fields as Air Cleaning Systems in Rooms

17:00 Break

17:30 Discussion

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